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CLAIMS

What is claimed is:

1. A beamblock tray for use with multiple defining heads in a medical linear accelerator, the beamblock tray comprising:

a tray portion; and

a plurality of coded connectors coupled to the tray portion, wherein the tray portion (208) can be inserted into a defining head in a plurality of directions based upon the plurality of coded connectors.

- 2. The tray of claim 1 which includes a flange which surrounds the tray portion and is coupled between the plurality of coded connectors and the tray portion.
- 3. The tray of claim 1 wherein the plurality of coded connectors comprise first and second coded connectors.
- 4. The tray of claim 3 wherein the first coded connector is located along a bottom edge of the tray portion and the second coded connector is located along a left edge of the tray portion.
- 5. The tray of claim 1 wherein each of the plurality of coded connectors comprises a resister pair.



6. A beamblock tray for as with multiple defining heads in a medical linear

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accelerator, the	beamblock	tray	y com	prising:

a tray portion; and

portion can be inserted into a defining head in a plurality of directions based upon the first and second coded connectors, and a flange which surrounds the tray portion is coupled between the first and second coded connectors and the tray portion.

- 7. The tray of claim 6 wherein the first coded connector is located along a bottom edge of the tray portion and the second coded connector is located along a left edge of the tray portion.
- 8. The tray of claim 7 wherein each of the first and second coded connectors comprises a resistor pair.
 - 9. A medical linear accelerator comprising:

a support gantry coupled to the control console in the medical linear accelerator;

a defining head coupled to the support gantry; and

a beamblock tray for us with the defining head, the beam block tray comprising a

tray portion and a plurality of coded connectors coupled to the tray portion, wherein the tray

portion can be inserted into the defining head in a plurality of directions based upon the

plurality of coded connectors.

10. The medical linear accelerator of claim 8 which includes a flange which surrounds the tray portion and is coupled between the plurality of coded connectors and the

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Cartie

11.	The medical linear accelerator of claim 9 wherein the plurality of coded
connectors co	mprise first and second coded connectors.

- 12. The medical linear accelerator of claim 11 wherein the first coded connector is located along a bottom edge of the tray portion and the second coded connector is located along a left edge of the tray portion.
- 13. The medical linear accelerator of claim 9 wherein each of the plurality of coded connectors comprises a resistenpair.
- 14. A method for determining if a beamblock tray is oriented correctly in a defining head of a medical linear accelerator, the method comprising the steps of:
 - (a) determining if a cover-connector on the beamblock tray is recognized;
 - (b) identifying a mismatch if the coded connector is not recognized; and
 - (c) preventing radiation from being delivered by the medical linear accelerator
 - (10).
- 15. The method of claim 14 which includes the step of alerting a radiation therapist if radiation is not delivered.
 - A medical linear accelerator comprising:

 a support gantry coupled to the control console in a medical linear

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accelerator (10);

a defining head coupled to the support gantry; and

a beam block tray for use with the defining head, the beamblock tray comprising a tray portion and first and second coded connectors coupled to the tray portion, wherein the tray portion can be inserted into a defining head in a plurality of directions based upon the first and second coded connectors, and a flange which surrounds the tray portion is coupled between the first and second coded connectors and the tray portion.

- 17. The medical linear accelerator of claim 16 wherein the first coded connector is located along a bottom edge of the tray portion and the second coded connector is located along a left edge of the tray portion.
- 18. The medical linear accelerator of claim 16 wherein the first and second coded connectors comprises a resistor pair.
- 19. A computer readable medium containing program instructions for determining if a beamblock tray is oriented correctly in a defining head of a medical linear accelerator, the program instructions for
- (a) determining if a coded connector on the beamblock tray is recognized; and
 - (b) identifying a mismatch if the coded connector is not recognized; and
- 7 (c) preventing radiation from being delivered by the medical linear 8 accelerator.

20. The computer readable medium of claim 19 which includes program instructions for (d) alerting a radiation therapist if radiation is not delivered.